PHILIP MORRIS U. S. A.

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D. E. LEYDEN

INTER-OFFICE CORRESPONDENCE

Richmond, Virginia

To: D. E. Leyden

Date: January 23, 1990

From: J. L. Banyasz

Subject: Operations Support - Projections for 1990

Our projected operations support effort for 1990 is outlined below. Two members of project 1708, Dennis Driscoll and Pat Henderson, are committed full time to this area. All our operations support work is carried out in collaboration with the Applied Technology Group at 20th Street.

ENVIRONMENTAL COMPLIANCE

I. Objective: Develop and implement at plant levels, low energy and low capital cost technology equipment to assure the required levels of dissolved oxygen (4.6 mg/L) in the effluent from the Park 500 waste-treatment plant.

Operational Plans: Using bench scale laboratory studies, identify the best location(s) for equipment placement (intermixers(s) and pumps). Then perform the necessary scale-up and economic studies leading to full scale implementation.

Resources in Man-years: 0.5

II. Objective: Assess and develop ultrasonic dispersion technology for the removal of phosphorus from the effluent at the Park 500 waste-treatment plant.

Operational Plans: Using an ultrasonic mixer to mix and disperse chemicals, including polymers, at various locations at the waste-treatment plant, determine the required chemical concentrations as a function of phosphorus removal. Identify capital and operating costs as compared to other technologies.

Resources in Man-years: 0.5

CHARACTERIZATION OF MONOGRAM INKS

I. Objective: Develop incoming materials specifications for monogram inks.

Operational Plans: Using previously elucidated operating windows and press parameters presently being measured, define monogram ink specifications to be used by our purchasing department.

Resources in Man-years: 0.5

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Source: https://www.industrydocuments.ucsf.edu/docs/pkhm0000

II. Objective: Develop new monogram ink formulations that have more rapid setting times. These inks will be used on higher speed cigarette makers.

Operational Plans: Using modified binders, pigments, and oils, reformulate inks to have more rapid setting times without significantly affecting press properties.

Resources in Man-years: 0.5

cc: Central Files
B. A. Semp
J. F. Whidby

J. T. Banyasz

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Source: https://www.industrydocuments.ucsf.edu/docs/pkhm0000